

LABORATORY REPORT

Prepared For: Brown & Caldwell Project: Florence Copper

201 E. Washington St., Ste. 500

Phoenix, AZ 85004

Attention: Barbara Sylvester Sampled: 01/27/11 Received: 01/27/11

Issued: 02/05/11 10:40

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

CLIENT ID	MATRIX
M6-GU	Water
M8-0	Water
M19.1	Water
M23-UBF	Water
M22-0	Water
M15-GU	Water
M14-GL	Water
M2-GU	Water
M1-GL	Water
M18-GU	Water
M3-GL	Water
M4-0	Water
	M6-GU M8-0 M19.1 M23-UBF M22-0 M15-GU M14-GL M2-GU M1-GL M18-GU M3-GL



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Brown & Caldwell Project ID: Florence Copper

201 E. Washington St., Ste. 500 Sampled: 01/27/11 Phoenix, AZ 85004 Report Number: PUA1597 Received: 01/27/11

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SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within

method specified holding time requirements.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

N1-The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after

receipt.

N1a-Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The

batch was accepted based on acceptable recovery in the Blank Spike (LCS).

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix



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DISSOLVED METALS

DISSOLVED METALS									
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	
Sample ID: PUA1597-01 (M6-GU - Water) Reporting Units: mg/l Magnesium	E200.7	11B0041	0.25	2.8	1	2/1/2011	2/2/2011	N1	
Sample ID: PUA1597-02 (M8-0 - Water) Reporting Units: mg/l Magnesium	E200.7	11B0041	0.25	ND	1	2/1/2011	2/2/2011	N1	
Sample ID: PUA1597-03 (M19.1 - Water) Reporting Units: mg/l Magnesium	E200.7	11B0041	0.25	2.7	1	2/1/2011	2/2/2011	N1	
Sample ID: PUA1597-04 (M23-UBF - Water) Reporting Units: mg/l Magnesium	E200.7	11B0041	0.25	33	1	2/1/2011	2/2/2011	N1	
Sample ID: PUA1597-05 (M22-0 - Water) Reporting Units: mg/l Magnesium	E200.7	11B0041	0.25	6.1	1	2/1/2011	2/2/2011	N1	
Sample ID: PUA1597-06 (M15-GU - Water) Reporting Units: mg/l Magnesium	E200.7	11B0042	0.25	23	1	2/1/2011	2/3/2011	N1	
Sample ID: PUA1597-07 (M14-GL - Water) Reporting Units: mg/l Magnesium	E200.7	11B0042	0.25	2.0	1	2/1/2011	2/3/2011	N1	
Sample ID: PUA1597-08 (M2-GU - Water) Reporting Units: mg/l Magnesium	E200.7	11B0042	0.25	22	1	2/1/2011	2/3/2011	N1	
Sample ID: PUA1597-09 (M1-GL - Water) Reporting Units: mg/l Magnesium	E200.7	11B0042	0.25	19	1	2/1/2011	2/3/2011	N1	
Sample ID: PUA1597-10 (M18-GU - Water) Reporting Units: mg/l Magnesium	E200.7	11B0042	0.25	21	1	2/1/2011	2/3/2011	N1	

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DISSOLVED METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUA1597-11 (M3-GL - Water) Reporting Units: mg/l Magnesium	E200.7	11B0042	0.25	18	1	2/1/2011	2/3/2011	N1
Sample ID: PUA1597-12 (M4-0 - Water) Reporting Units: mg/l Magnesium	E200.7	11B0042	0.25	4.1	1	2/1/2011	2/3/2011	N1



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	INORGANICS										
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers			
•	Method	Daten	Limit	Result	ractor	Extracted	Anaryzeu	Quanners			
Sample ID: PUA1597-01 (M6-GU - Water)											
Reporting Units: mg/l luoride	EPA 300.0	11A1025	0.40	0.58	1	1/31/2011	1/31/2011				
ulfate	EPA 300.0	11A1025	2.00	51.5	1	1/31/2011	1/31/2011				
otal Dissolved Solids	SM2540C	11B0054	2.00	380	1	2/2/2011	2/2/2011				
ample ID: PUA1597-02 (M8-0 - Water)											
Reporting Units: mg/l											
uoride	EPA 300.0	11A1025	0.40	1.9	1	1/31/2011	2/1/2011				
ılfate	EPA 300.0	11A1025	2.00	72.3	1	1/31/2011	2/1/2011				
otal Dissolved Solids	SM2540C	11B0054	20	380	1	2/2/2011	2/2/2011				
ample ID: PUA1597-03 (M19.1 - Water)											
Reporting Units: mg/l											
uoride	EPA 300.0	11B0035	0.40	0.65	1	2/1/2011	2/1/2011				
lfate	EPA 300.0	11B0035	2.00	53.1	1	2/1/2011	2/1/2011				
otal Dissolved Solids	SM2540C	11B0054	20	380	1	2/2/2011	2/2/2011				
mple ID: PUA1597-04 (M23-UBF - Water)											
Reporting Units: mg/l											
uoride	EPA 300.0	11B0035	0.40	0.68	1	2/1/2011	2/1/2011				
otal Dissolved Solids	SM2540C	11B0054	20	1200	1	2/2/2011	2/2/2011				
mple ID: PUA1597-04RE1 (M23-UBF - Wa	ater)										
Reporting Units: mg/l											
ılfate	EPA 300.0	11B0075	10.0	242	5	2/2/2011	2/2/2011				
mple ID: PUA1597-05 (M22-0 - Water)											
Reporting Units: mg/l											
uoride	EPA 300.0	11B0035	0.40	0.70	1	2/1/2011	2/1/2011				
lfate	EPA 300.0	11B0035	2.00	55.7	1	2/1/2011	2/1/2011				
otal Dissolved Solids	SM2540C	11B0054	20	430	1	2/2/2011	2/2/2011				
mple ID: PUA1597-06 (M15-GU - Water)											
Reporting Units: mg/l											
uoride	EPA 300.0	11B0035	0.40	0.47	1	2/1/2011	2/1/2011				
ılfate	EPA 300.0	11B0035	2.00	84.7	1	2/1/2011	2/1/2011				
otal Dissolved Solids	SM2540C	11B0054	20	800	1	2/2/2011	2/2/2011				
imple ID: PUA1597-07 (M14-GL - Water)											
Reporting Units: mg/l											
luoride	EPA 300.0	11B0035	0.40	0.58	1	2/1/2011	2/1/2011				
ulfate	EPA 300.0	11B0035	2.00	58.9	1	2/1/2011	2/1/2011				
Total Dissolved Solids	SM2540C	11B0054	20	420	1	2/2/2011	2/2/2011				

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Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUA1597-08 (M2-GU - Water)							•	
Reporting Units: mg/l								
Fluoride	EPA 300.0	11B0035	0.40	0.76	1	2/1/2011	2/1/2011	
Total Dissolved Solids	SM2540C	11B0054	20	830	1	2/2/2011	2/2/2011	
Sample ID: PUA1597-08RE1 (M2-GU - Water Reporting Units: mg/l	er)							
Sulfate	EPA 300.0	11B0075	10.0	141	5	2/2/2011	2/2/2011	
Sample ID: PUA1597-09 (M1-GL - Water)								
Reporting Units: mg/l								
Fluoride	EPA 300.0	11B0035	0.40	0.68	1	2/1/2011	2/1/2011	
Total Dissolved Solids	SM2540C	11B0054	20	640	1	2/2/2011	2/2/2011	
Sample ID: PUA1597-09RE1 (M1-GL - Water	er)							
Reporting Units: mg/l	EDA 200.0	1100055	10.0	102	-	0/0/0011	0/0/0011	
Sulfate	EPA 300.0	11B0075	10.0	103	5	2/2/2011	2/2/2011	
Sample ID: PUA1597-10 (M18-GU - Water)								
Reporting Units: mg/l								
Fluoride	EPA 300.0	11B0035	0.40	0.86	1	2/1/2011	2/1/2011	
Total Dissolved Solids	SM2540C	11B0054	20	820	1	2/2/2011	2/2/2011	
Sample ID: PUA1597-10RE1 (M18-GU - Wa	ter)							
Reporting Units: mg/l								
Sulfate	EPA 300.0	11B0075	10.0	170	5	2/2/2011	2/2/2011	
Sample ID: PUA1597-11 (M3-GL - Water) Reporting Units: mg/l								
Fluoride	EPA 300.0	11B0035	0.40	0.68	1	2/1/2011	2/1/2011	
Total Dissolved Solids	SM2540C	11B0054	20	650	1	2/2/2011	2/2/2011	
Sample ID: PUA1597-11RE1 (M3-GL - Wate	er)							
Reporting Units: mg/l								
Sulfate	EPA 300.0	11B0075	10.0	118	5	2/2/2011	2/2/2011	
Sample ID: PUA1597-12 (M4-0 - Water)								
Reporting Units: mg/l	EDA 200 C	1100027	0.40	2.4		2/1/2011	0/1/0011	
Fluoride	EPA 300.0	11B0035	0.40	2.4	1	2/1/2011	2/1/2011	
Sulfate T. (1.12): 1.15.111	EPA 300.0	11B0035	2.00	57.4	1	2/1/2011	2/1/2011	
Total Dissolved Solids	SM2540C	11B0054	20	430	1	2/2/2011	2/2/2011	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Amaluta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Data Qualifiers
Analyte	Result	Limit	Units	Levei	Result	70KEC	Limits	KrD	Lillit	Quanners
Batch: 11B0041 Extracted: 02/01/11										
Blank Analyzed: 02/02/2011 (11B0041-B	LK1)									
Magnesium	ND	0.25	mg/l							
Plank Analyzad, 02/02/2011 (11D0041 D	I I/2)									
Blank Analyzed: 02/02/2011 (11B0041-B Magnesium	ND	0.25	mg/l							
		0.23	mg/i							
LCS Analyzed: 02/02/2011 (11B0041-BS	*									
Magnesium	19.3	0.25	mg/l	21.0		92	85-115			
LCS Dup Analyzed: 02/02/2011 (11B004	1-BSD1)									
Magnesium	20.1	0.25	mg/l	21.0		96	85-115	4	20	
Matrix Spike Analyzed: 02/02/2011 (11B	0041-MS1)				Source: P	UA1538-(01			
Magnesium	30.0	0.25	mg/l	21.0	9.16	99	75-125			
Matrix Spike Analyzed: 02/02/2011 (11B	0041-MS2)				Source: P	UA1538-()2			
Magnesium	23.7	0.25	mg/l	21.0	3.56	96	75-125			
Matrix Spike Dup Analyzed: 02/02/2011	(11B0041-M	SD1)			Source: P	UA1538-(01			
Magnesium	30.6	0.25	mg/l	21.0	9.16	102	75-125	2	10	
Matrix Spike Dup Analyzed: 02/02/2011	(11B0041-M	SD2)			Source: P	UA1538-0)2			
Magnesium	24.7	0.25	mg/l	21.0	3.56	101	75-125	4	10	
Batch: 11B0042 Extracted: 02/01/11										
Blank Analyzed: 02/03/2011 (11B0042-B	LK1)									
Magnesium	ND	0.25	mg/l							

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DISSOLVED METALS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11B0042 Extracted: 02/01/11										
Blank Analyzed: 02/03/2011 (11B0042-B	LK2)									
Magnesium	ND	0.25	mg/l							
LCS Analyzed: 02/03/2011 (11B0042-BS)	1)									
Magnesium	20.4	0.25	mg/l	21.0		97	85-115			
LCS Dup Analyzed: 02/03/2011 (11B0042	2-BSD1)									
Magnesium	20.6	0.25	mg/l	21.0		98	85-115	0.9	20	
Matrix Spike Analyzed: 02/03/2011 (11B	0042-MS1)				Source: P	UA1597-0	06			
Magnesium	43.5	0.25	mg/l	21.0	23.4	96	75-125			
Matrix Spike Analyzed: 02/03/2011 (11B	0042-MS2)				Source: P	UA1597-(07			
Magnesium	22.3	0.25	mg/l	21.0	1.98	97	75-125			
Matrix Spike Dup Analyzed: 02/03/2011	(11B0042-M	SD1)			Source: P	UA1597-(06			
Magnesium	44.3	0.25	mg/l	21.0	23.4	100	75-125	2	10	
Matrix Spike Dup Analyzed: 02/03/2011	2011 (11B0042-MSD2)				Source: PUA1597-07					
Magnesium	22.4	0.25	mg/l	21.0	1.98	97	75-125	0.7	10	



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METHOD BLANK/QC DATA

INORGANICS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11A1025 Extracted: 01/31/11										
Blank Analyzed: 01/31/2011 (11A1025-B	LK1)									
Fluoride	ND	0.40	mg/l							
Sulfate	ND	2.00	mg/l							
LCS Analyzed: 01/31/2011 (11A1025-BS	1)									
Fluoride	3.86	0.40	mg/l	4.00		97	90-110			
Sulfate	20.0	2.00	mg/l	20.0		100	90-110			
LCS Dup Analyzed: 01/31/2011 (11A102	5-BSD1)									
Fluoride	3.79	0.40	mg/l	4.00		95	90-110	2	20	
Sulfate	19.9	2.00	mg/l	20.0		99	90-110	0.8	15	
Matrix Spike Analyzed: 02/01/2011 (11A	.1025-MS1)				Source: P	UA1732-0)1			
Fluoride	3.82	0.40	mg/l	4.00	ND	95	80-120			
Sulfate	21.1	2.00	mg/l	20.0	1.13	100	80-120			
Matrix Spike Analyzed: 01/31/2011 (11A	1025-MS2)				Source: P	UA1733-0)1			
Fluoride	4.20	0.40	mg/l	4.00	0.373	96	80-120			
Sulfate	144	2.00	mg/l	20.0	128	78	80-120			M2
Matrix Spike Dup Analyzed: 02/01/2011	(11A1025-M	SD1)			Source: P	UA1732-0)1			
Fluoride	3.86	0.40	mg/l	4.00	ND	97	80-120	1	20	
Sulfate	21.0	2.00	mg/l	20.0	1.13	99	80-120	0.2	15	
Matrix Spike Dup Analyzed: 01/31/2011	(11A1025-M	SD2)			Source: P	UA1733-0)1			
Fluoride	4.21	0.40	mg/l	4.00	0.373	96	80-120	0.3	20	
Sulfate	144	2.00	mg/l	20.0	128	78	80-120	0.02	15	M2

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B0035 Extracted: 02/01/11										
Blank Analyzed: 02/01/2011 (11B0035-l	BLK1)									
Fluoride	ND	0.40	mg/l							
Sulfate	ND	2.00	mg/l							
LCS Analyzed: 02/01/2011 (11B0035-B	S1)									
Fluoride	4.10	0.40	mg/l	4.00		103	90-110			
Sulfate	20.3	2.00	mg/l	20.0		102	90-110			N1a
LCS Dup Analyzed: 02/01/2011 (11B00	35-BSD1)									
Fluoride	4.12	0.40	mg/l	4.00		103	90-110	0.4	20	
Sulfate	20.3	2.00	mg/l	20.0		102	90-110	0.2	15	N1a
Matrix Spike Analyzed: 02/01/2011 (11)	B0035-MS1)				Source: I	PUA1597-0	08			
Fluoride	4.92	0.40	mg/l	4.00	0.762	104	80-120			
Matrix Spike Analyzed: 02/01/2011 (11)	B0035-MS2)				Source: I	PUA1643-0	01			
Fluoride	4.76	0.40	mg/l	4.00	0.511	106	80-120			
Matrix Spike Dup Analyzed: 02/01/201	1 (11B0035-M	ISD1)			Source: I	PUA1597-0	08			
Fluoride	5.04	0.40	mg/l	4.00	0.762	107	80-120	2	20	
Matrix Spike Dup Analyzed: 02/01/201	1 (11B0035-M	ISD2)			Source: I	PUA1643-0	01			
Fluoride	4.80	0.40	mg/l	4.00	0.511	107	80-120	0.9	20	
Batch: 11B0054 Extracted: 02/02/11										
Blank Analyzed: 02/02/2011 (11B0054-l	BLK1)									
Total Dissolved Solids	ND	20	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Data Qualifiers
	Result	Limit	Onits	Level	Result	/0KEC	Limits	KI D	Limit	Quanners
Batch: 11B0054 Extracted: 02/02/11										
LCS Analyzed: 02/02/2011 (11B0054-BS	1)									
Total Dissolved Solids	1010	20	mg/l	1000		101	80-115			
LCS Dup Analyzed: 02/02/2011 (11B005	4-BSD1)									
Total Dissolved Solids	1020	20	mg/l	1000		102	80-115	1	10	
Duplicate Analyzed: 02/02/2011 (11B005	4-DUP1)				Source: P	UA1538-1	14			
Total Dissolved Solids	430	20	mg/l		460			7	10	
Duplicate Analyzed: 02/02/2011 (11B005	4-DUP2)				Source: P	UA1597-0)4			
Total Dissolved Solids	1200	20	mg/l		1180			2	10	
Batch: 11B0075 Extracted: 02/02/11										
Blank Analyzed: 02/02/2011 (11B0075-B	LK1)									
Sulfate	ND	2.00	mg/l							
LCS Analyzed: 02/02/2011 (11B0075-BS	1)									
Sulfate	20.0	2.00	mg/l	20.0		100	90-110			
LCS Dup Analyzed: 02/02/2011 (11B007	5-BSD1)									
Sulfate	20.0	2.00	mg/l	20.0		100	90-110	0.02	15	
Matrix Spike Analyzed: 02/02/2011 (11B	30075-MS1)				Source: P	UB0102-0)1			
Sulfate	47.1	2.00	mg/l	20.0	24.9	111	80-120			
Matrix Spike Analyzed: 02/02/2011 (11B	30075-MS2)			Source: PUB0074-03						
Sulfate	62.8	2.00	mg/l	20.0	43.2	98	80-120			

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INORGANICS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11B0075 Extracted: 02/02/11										
Matrix Spike Dup Analyzed: 02/02/2011	(11B0075-MS	SD1)			Source: P	UB0102-0	1			
Sulfate	47.1	2.00	mg/l	20.0	24.9	111	80-120	0.06	15	
Matrix Spike Dup Analyzed: 02/02/2011	(11B0075-MS	5D2)			Source: P	UB0074-0	13			
Sulfate	63.0	2.00	mg/l	20.0	43.2	99	80-120	0.3	15	



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DATA QUALIFIERS AND DEFINITIONS

M2Matrix spike recovery was low; the associated blank spike recovery was acceptable.

See case narrative. N1

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Project ID: Florence Copper Brown & Caldwell

201 E. Washington St., Ste. 500

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Attention: Barbara Sylvester

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
E200.7	Water		X
EPA 300.0	Water		X
SM2540C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

CHAIN OF CUSTODY FORM

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Thicson - 1870 W Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803

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Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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